stryker®

Operations Manual

Medical

M-Series Stretcher
Model SM304

Important Information
File in your maintenance records

For parts or technical assistance call
800 327 0770 (option 2)

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INTRODUCTION

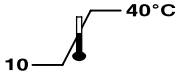
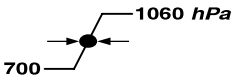
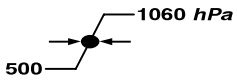
This manual is designed to assist you with the operation of the model SM304 Stretcher with Zoom®. Read it thoroughly before using the equipment or beginning any maintenance on it.

INTENDED USE

This product is intended to be used as a general purpose patient transport and treatment stretcher.

SPECIFICATIONS

Safe Working Load	700 pounds (318 kilograms)
Weight of Product	26” Stretcher − 415 lbs / 188 kgs (standard configuration) 465 lbs / 211 kgs (all options/accessories) 30” Stretcher − 435 lbs / 197 kgs (standard configuration) 485 lbs / 220 kgs (all options/accessories)
Overall Stretcher Length	85” (± .5”)
Overall Stretcher Width (Siderails Up)	33.5” & 37” (± .5”)
Overall Stretcher Width (Siderails Down)	30.25” & 30.75” (± .5”)
Minimum / Maximum Stretcher Height	23” / 34” (± .5”)
Fowler Angle	0 to 90° (± 3°)
Knee Gatch Angle	0 to 40° (± 1°)
Trendelenburg / Reverse Trendelenburg	+15° to −15°
Electrical	115 VAC, 60 Hz, 3 Amp
Battery Voltage	24 V, 31 Ah
Water Protection	IPX5
Mode of Operation	Continuous
Electromagnetic Compatibility: Product conforms to EN 60601−1−2:1993 − Class A	
Ambient Temperature in Charge Mode	Not to exceed 28° C

Environmental Conditions	Operation	Storage and Transportation
Temperature		
Relative Humidity		
Atmospheric Pressure		

NOTE

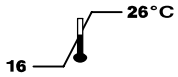
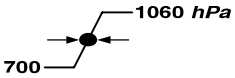
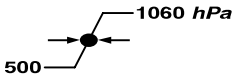
Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide

Stryker reserves the right to change specifications without notice.

Specifications listed are approximate and may vary slightly from unit to unit or by power supply fluctuations

SPECIFICATIONS (OPTIONAL SCALE SYSTEM)

Optional Scale System Weight Operating Range	0 lbs. to maximum capacity of the stretcher
Optional Scale System Accuracy	Between 10° Trend & 10° reverse Trend* ± 2 lbs. of weights below 100 lbs. ± 2% of weights above 100 lbs.

Environmental Conditions	Operation	Storage and Transportation
Temperature		
Relative Humidity		
Atmospheric Pressure		

* Scale does not meet accuracy claims at Trend angles outside the specified range.

Internally Powered
Mode of Operation: Continuous
IPX5
Electromagnetic Compatibility: Product conforms to EN 60601−1−2:1993 − Class B
Type: 4 x AA Battery (4 x 1.5VDC)
Voltage: 6.0VDC

WARNING / CAUTION / NOTE DEFINITION

The words WARNING, CAUTION and NOTE carry special meanings and should be carefully reviewed.

WARNING

Alerts the reader about a situation, which if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

CAUTION

Alerts the reader of a potentially hazardous situation, which if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

NOTE

This provides special information to make maintenance easier or important instructions clearer.

Symbols

Warning, Refer to Operations or Service/Maintenance Manual

~ Alternating Current

Type B Equipment: equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.

Class 1 Equipment: equipment in which protection against electric shock does not rely on BASIC INSULATION only, but which includes an additional safety precaution in that means are provided for the connection of the EQUIPMENT to the protective earth conductor in the fixed wiring of the installation in such a way that ACCESSIBLE METAL PARTS cannot become live in the event of a failure of the BASIC INSULATION.
Internally powered.

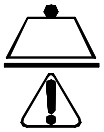
Dangerous Voltage Symbol

Protective Earth Terminal

Potential Equalization Symbol

87VL
MEDICAL
EQUIPMENT
UL 2601−1

Medical Equipment Classified by Underwriters Laboratories Inc. with Respect to Electric Shock, Fire, Mechanical and Other Specified Hazards Only in Accordance with UL 2601−1, Second Edition and CAN/CSA C22.2 No. 601.1−M90



Safe Working Load Symbol

Location not suitable for oxygen bottle storage/placement

Optional Scale System

UL60601−1
CAN/CSA C22.2
NO.601.1

Medical Equipment Classified by Underwriters Laboratories Inc. with Respect to Electric Shock, Fire, Mechanical and Other Specified Hazards Only in Accordance with UL 60601−1 First Edition (2003) and CAN/CSA C22.2 No. 601.1.

Summary of Safety Precautions

Before operating this stretcher, it is important to read and understand all information in this manual. Carefully read and strictly follow the warnings and cautions listed on this page and the next page.

Service only by qualified personnel. Refer to maintenance manual.

WARNING

Patients should be discouraged from sitting directly on the ends of the stretcher. Excessive weight could cause the litter surface to tip up, possibly causing patient injury.

Serious injury can result if caution is not used when operating the unit. Operate the unit only when all persons are clear of the electrical and mechanical systems.

USE CAUTION while maneuvering the unit with the drive wheel activated. Always ensure there are no obstacles near the unit while the drive wheel is activated. Injury to the patient, users or bystanders or damage to the stretcher frame or surrounding equipment could occur if the unit collides with an obstacle.

Always apply the caster brakes when a patient is getting on or off the stretcher. Push on the stretcher to ensure the brakes are securely locked. Always engage the brakes unless the stretcher is being moved. Injury could result if the stretcher moves while a patient is getting on or off the stretcher.

Ensure the brakes are completely released prior to attempting to move the unit. Attempting to move the unit with the brakes actuated could result in injury to the user and/or patient.

Do not attempt to push the unit manually with the drive wheel engaged and the “ON/DRIVE − OFF/MANUAL” switch in the ON position. The unit will be difficult to push and injury could result.

If unanticipated motion occurs, unplug the power cord from the wall socket and rotate the “ON/DRIVE − OFF/MANUAL” switch to the OFF position.

Leave the stretcher litter in the lowest position when the patient is unattended. Leaving the litter in a raised position could increase the chance of patient falls and injury.

After raising the siderails, pull firmly on the siderail to ensure it is securely locked into the up position. Siderails are not intended to serve as a patient restraint device to keep patients from exiting the unit. Siderails are designed to keep a patient from inadvertently rolling off the unit. It is the responsibility of the attending medical personnel to determine the degree of restraint necessary to ensure a patient will remain in place. Failure to utilize the siderails properly could result in patient injury.

When lowering the siderail to the collapsed position, keep extremities of patients and staff away from the siderail spindles.

Keep fingers/hands clear of area around Fowler release handle and Fowler frame when lowering. Injury could result if care is not taken when lowering the Fowler.

To avoid damage, the weight of the I.V. bags should not exceed 40 pounds.

Explosion hazard. Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

Possible fire hazard when oxygen administering equipment of other than the nasal mask or 1/2 bed length tent type is used. Oxygen tent should not extend below mattress support level.

If the stretcher is equipped with the optional foot end IV pole, the IV pole must be in the raised position when the foot extension/defibrillator tray is installed. If the IV pole is not raised, the foot extension will not function properly and injury could occur.

If the stretcher is equipped with the optional foot end push handles, use caution while the foot extension/defibrillator tray is installed to avoid pinching your fingers.

Summary of Safety Precautions

CAUTION

The Model 1025 Stretcher is equipped with a hospital grade plug for protection against electric shock hazard. It must be plugged directly into a properly grounded three−prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

Be sure to move any equipment that may be in the way before raising or lowering the litter height.

Do not engage the pedal when the drive wheel is resting on a threshold or other raised area. The force required to engage the drive wheel will be higher than normal, possibly causing damage.

To avoid personal injury or damage to the equipment, do not allow the siderail to lower on its own.

Hand wash all surfaces of the frame with warm water and mild detergent. Dry thoroughly. DO NOT STEAM CLEAN, PRESSURE WASH, HOSE OFF OR ULTRASONICALLY CLEAN. Using these methods of cleaning is **not** recommended and may void this product's warranty. Inspect the mattress cover after each use. Discontinue use if any cracks or rips are found in the cover which may allow fluids to enter the mattress. Exposure to fluids may cause injury to patient and/or user.

If large fluid spills occur in the area of the circuit boards or motors, immediately unplug the power cord from the wall socket and rotate the "ON/DRIVE − OFF/MANUAL" switch to the OFF position. Remove the patient from the unit and clean up the fluid. Have maintenance completely check the unit. Fluids can short out controls and may cause the unit to operate erratically or make some functions completely inoperable. Component failure caused by fluids could even cause the unit to operate unpredictably and could cause injury to the patient. DO NOT put the unit back into service until it is completely dry and has been thoroughly tested for safe operation.

Preventative maintenance should be performed at a minimum of annually to ensure all features are functioning as designed. Close attention should be given to safety features including, but not limited to:

Safety side latching mechanisms
Leakage current 300 microamps max.
Frayed electrical cords and components
Caster braking systems
No controls or cabling entangled in frame mechanisms
All controls return to off or neutral position when released
Protective ground impedance 100 milliohms max: Test point(s) include electronics enclosure and motor chassis mounted to base of unit.

Always unplug the power cord and rotate the "ON/DRIVE − OFF/MANUAL" switch to the OFF position before service or cleaning.

Remove the batteries if the equipment is placed in storage or will remain idle for an extended period of time. Each battery weighs 25 pounds. To avoid personal injury, use caution when removing the two batteries.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.** Properly dispose of batteries when required.

This stretcher is not intended for pediatric use or for patients under 50 pounds. This stretcher is intended for use by trained hospital personnel only.

Do not modify this stretcher. Modifying the unit can cause unpredictable operation resulting in injury to the patient or operator. Modifying the unit will also void its warranty.

The weight capacity of the Knee Gatch is 200 pounds. Do not sit or stand on the Gatch. Injury or damage to the equipment could occur.

To avoid damage, do not put items weighing more than 30 pounds on the serving tray.

The cutout for the oxygen bottle holder may not be used for storage of oxygen bottles or patient belongings.

The hood may not be used for stepping.

NOTE

Clean hood storage area regularly.

The bottom of the brake rings should be cleaned regularly to prevent wax and/or floor remnant buildup.

Setup Procedures

It is important that the Model 1025 Stretcher is working properly before it is put into service. The following list will help ensure that each part of the unit is checked.

- Plug the power cord into a properly grounded, hospital grade wall receptacle. The 12 volt batteries that provide power to the drive wheel and backup power to the unit functions will charge whenever the power cord is plugged into the wall socket. The batteries require approximately 6 hours of charging time before the stretcher is put into service.

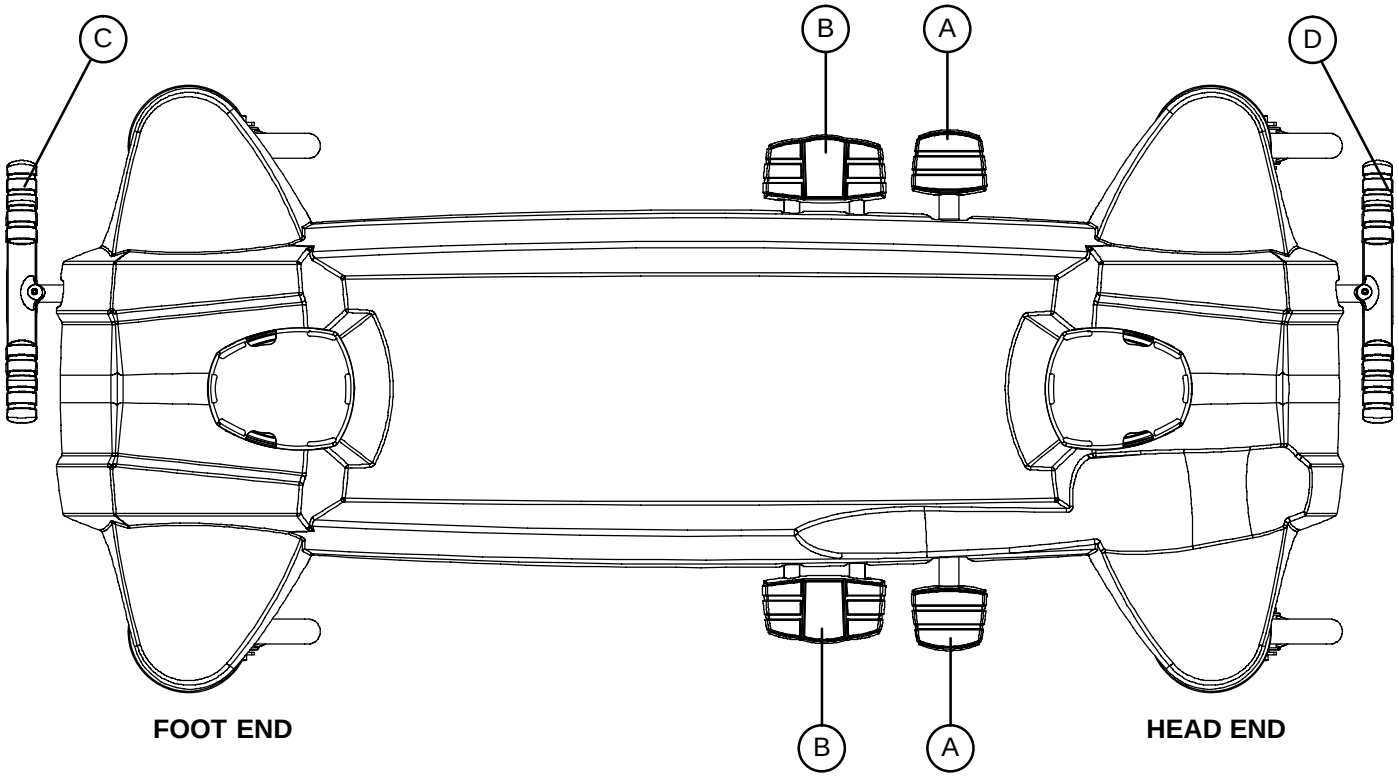
⚠ **CAUTION**

The Model 1025 Stretcher is equipped with a hospital grade plug for protection against electric shock hazard. It must be plugged directly into a properly grounded three−prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

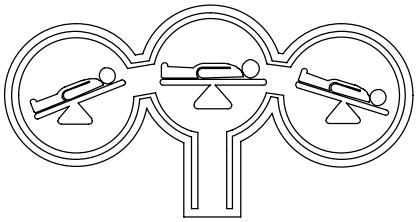
- Depress the pedal at either end of the stretcher fully to set the four wheel brakes and verify all four casters are locked.
- Ensure the siderails raise and lower smoothly and lock securely in the full up position.
- Run through the operation of the drive wheel (see page 12 & 13) to ensure it is operating properly.

Stretcher Operation

OPERATING THE BASE CONTROLS



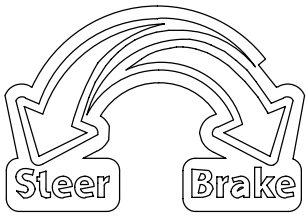
Pump pedal (A) to raise the litter.



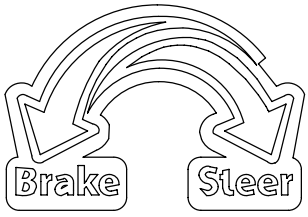
Depress in the center of pedal (B) to lower both ends of the stretcher together.

Depress the side of pedal (B) closest to the foot end of the stretcher to lower the foot end.

Depress the side of pedal (B) closest to the head end of the stretcher to lower the head end.



Pedal (C) − Brake and Steer functions (foot end)



Pedal (D) − Brake and Steer functions (head end)

RAISING AND LOWERING THE LITTER HEIGHT

CAUTION

Be sure to move any equipment that may be in the way before raising or lowering the litter height.

To **raise** the litter height, pump pedal (A) repeatedly until the desired height is achieved (see illustration on page 8).

To **lower** both ends of the litter together, depress the center of pedal (B). To lower only the head end of the litter, depress the side of pedal (B) closest to the head end. To lower only the foot end of the litter, depress the side of pedal (B) closest to the foot end (see illustration on page 8). The base may be equipped with optional variable descent controls. With variable descent controls, the farther you press down on the pedal, the faster the litter will lower.

TRENDELENBURG/REVERSE TRENDELENBURG

NOTE
Litter height must be raised first in order to achieve a trend. or reverse trend. position.

CAUTION

Be sure to remove any equipment that may be in the way before lowering stretcher.

For **Trendelenburg** positioning (head down), depress the side of pedal (B) closest to the head end of the stretcher (see illustration, page 8).

For **Reverse Trendelenburg** positioning (foot down), depress the side of pedal (B) closest to the foot end.

NOTE
The higher the litter is before pedal (B) is activated, the greater the trend. or reverse trend. angle will be. (Maximum trend. angle is +15°. Maximum reverse trend. angle is −15°).

APPLYING THE BRAKE SYSTEM

NOTE
For user convenience, the brake/steer pedal is located on both ends of the stretcher.

WARNING

Always apply the caster brakes when a patient is getting on or off the stretcher. Push on the stretcher to ensure the brakes are securely locked. Always engage the brakes unless the stretcher is being moved. Injury could result if the stretcher moves while a patient is getting on or off the stretcher.

To engage the brakes on the head (non−control) end, push fully down on the left side of pedal (D) (see illustration on page 8).

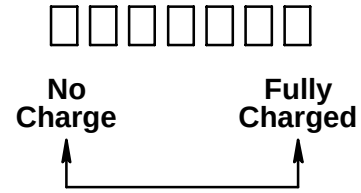
To engage the brakes on the foot (control) end, push fully down on the right side of pedal (C) (see illustration on page 8).

BATTERY CHARGING AND OPERATION

The unit has two 12 volt batteries to provide power to the drive wheel. The drive wheel will not operate properly if the batteries are not sufficiently charged. The batteries require approximately 6 hours of charging time when they are fully discharged.

The batteries are charging whenever the power cord is plugged into a properly grounded, hospital grade wall socket. When the unit is stationary, the power cord should be plugged into a wall socket whenever possible.

There is a battery power gauge at the head end of the litter. The 7 LED's illuminate individually to indicate the level of battery power available. As the batteries are charging, the LED's will flash in succession until all are flashing (at 1 second intervals) to indicate the batteries are fully charged.



BATTERY POWER GAUGE

CAUTION

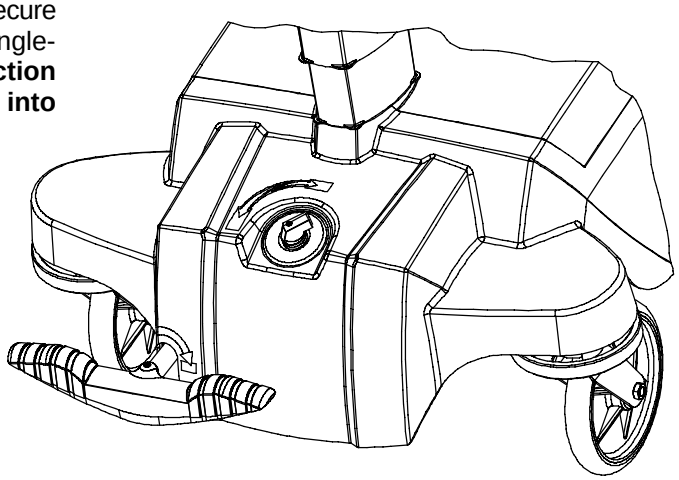
Remove the batteries if the equipment is placed in storage or will remain idle for an extended period of time.

Each battery weighs 25 pounds. To avoid personal injury, use caution when removing the two batteries.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.** Properly dispose of batteries when required.

TRANSPORTING THE STRETCHER USING THE DRIVE WHEEL

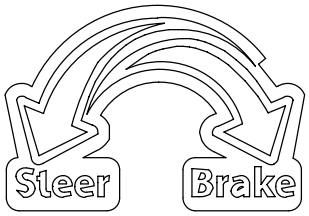
1. Unplug the power cord from the wall socket and secure the cord on the storage bracket to prevent entanglement while the unit is in motion. **The drive function will not operate if the power cord is plugged into the wall socket.**



2. Engage the drive wheel by rotating the pedal in the proper direction as shown on the directional label. To place the drive wheel in the neutral position, rotate the pedal until it is level.

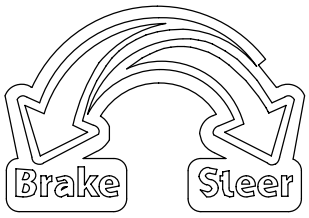
CAUTION

Do not engage the pedal when the drive wheel is resting on a threshold or other raised area. The force required to engage the drive wheel will be higher than normal, possibly causing damage.



Head End Pedal Directional Label

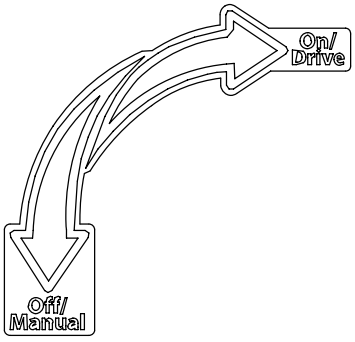
3. Put the "ON/DRIVE − OFF/MANUAL" switch in the ON position.



Foot End Pedal Directional Label

There are two LED's on the drive handle that indicate whether the unit is ready for driving.
If the *green* LED is on, the unit is *ready*.
If the *amber* LED is on, the unit is *not ready* for three possible reasons:

1. The pedal is in the brake or neutral position.
2. The power cord is plugged in the wall socket.
3. The power switch is in the "OFF/MANUAL" position.

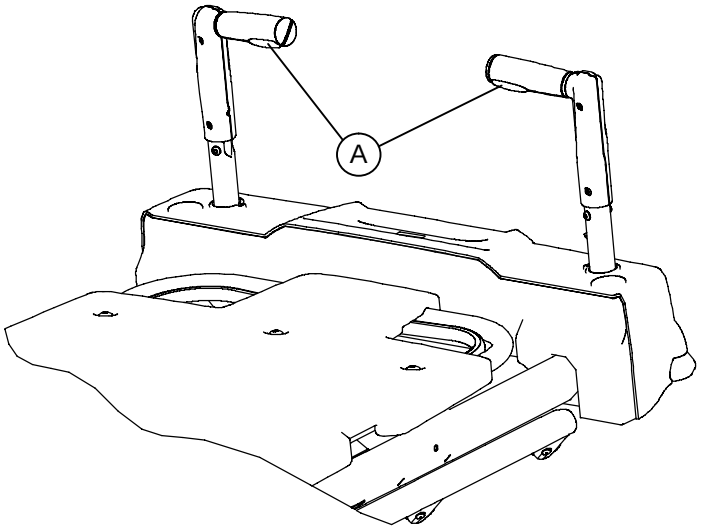


ON/DRIVE − OFF/MANUAL Switch Label

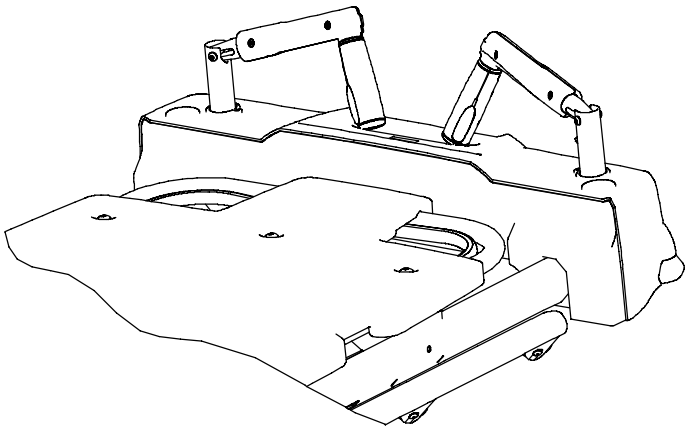
⚠ WARNING

USE CAUTION while maneuvering the unit with the drive wheel activated. Always ensure there are no obstacles near the unit while the drive wheel is activated. Injury to the patient, user or bystanders or damage to the unit or surrounding equipment could occur if the unit collides with an obstacle.

TRANSPORTING THE STRETCHER USING THE DRIVE WHEEL (CONTINUED)



STORED POSITION



4. Grasp the drive handles at the two raised grip areas. Squeeze either of the motion release switches (A) located under the handles to enable the movement of the drive wheel. Either or both switches will enable movement but both switches must be released to stop movement.

5. While continuing to squeeze the switch(es), push the handles away from you or pull the handles toward you to initiate motion in that direction. The speed of the drive wheel will increase proportionally to the amount of force applied to the drive handles. When the desired speed is reached, the stretcher will maintain speed and direction with no extra push force. To accelerate, push or pull the handles again until the desired speed is reached. Relax the force to a “neutral” position to maintain speed.

6. To slow down the motion of the stretcher, push or pull the handles in the opposite direction the stretcher is currently moving.

7. To stop motion, remove your hands from the switches and the handles.

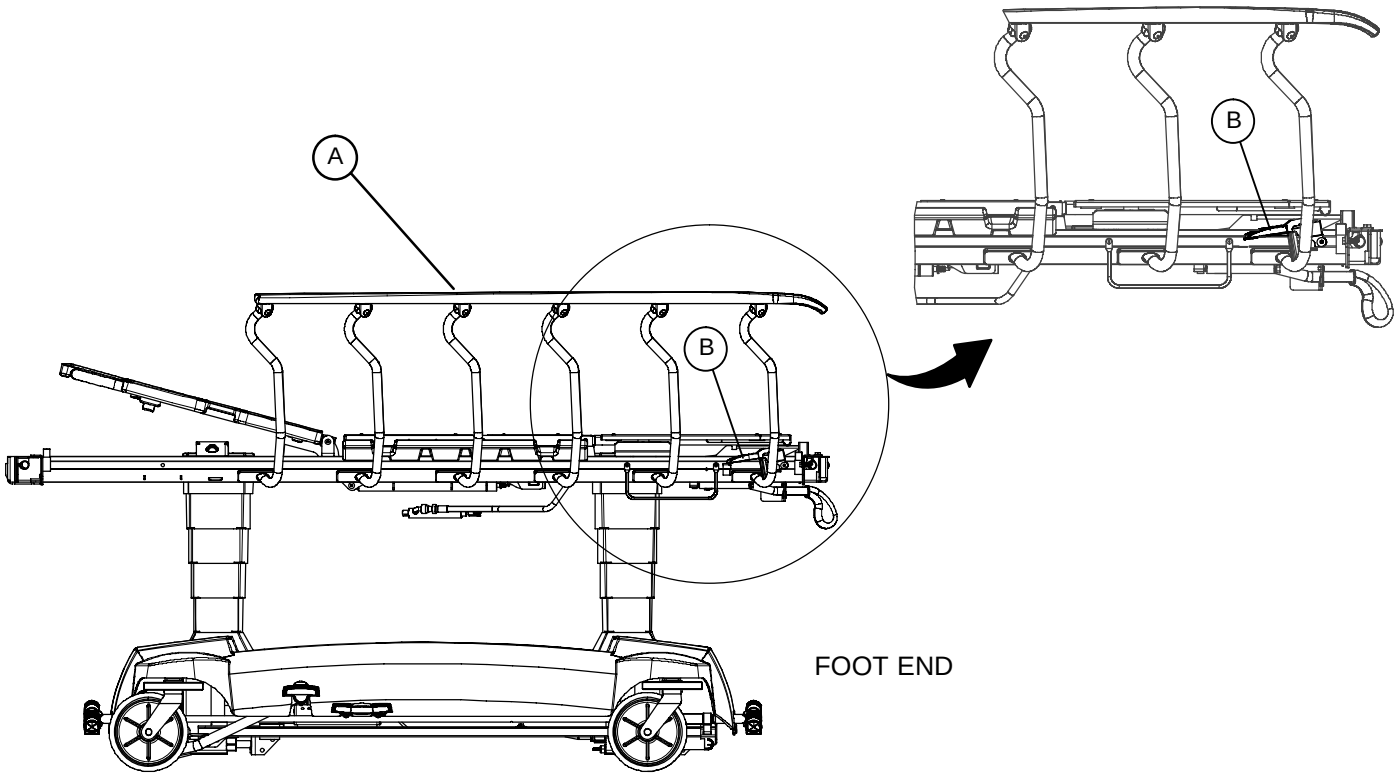
NOTE
The drive wheel does not pivot. The unit cannot be moved directly sideways with the drive wheel engaged. With the drive wheel pedal in the neutral position and the unit’s brakes released, the unit can be moved in any direction including sideways.

To transport the stretcher without using the drive wheel, put the pedal in the neutral position and put the “ON/DRIVE − OFF/MANUAL” switch in the OFF position. This allows the stretcher to be maneuvered with the assistance of the Big Wheel® but without power assistance from the Zoom® drive wheel.

⚠ **WARNING**

Do not attempt to push the unit manually with the drive wheel engaged and the “ON/DRIVE − OFF/MANUAL” switch in the ON position. The unit will be difficult to push and injury could result.

OPERATING THE GLIDEAWAY™ SIDERAILS



NOTE
Raising and lowering the siderails safely is a two−handed operation. Use one hand to hold and position the siderail and the other hand to operate the siderail latch.

WARNING
When lowering the siderail to the collapsed position, keep extremities of patients and staff away from the siderail spindles or injury could occur.

To raise the siderails: Pull up on the siderail (A) and raise it to the full up position until the latch (B) engages.

To lower the siderails: Pull up on the latch (B) and guide the siderail to the full down position.

NOTE
The latches (B) are colored yellow for easy identification.

CAUTION

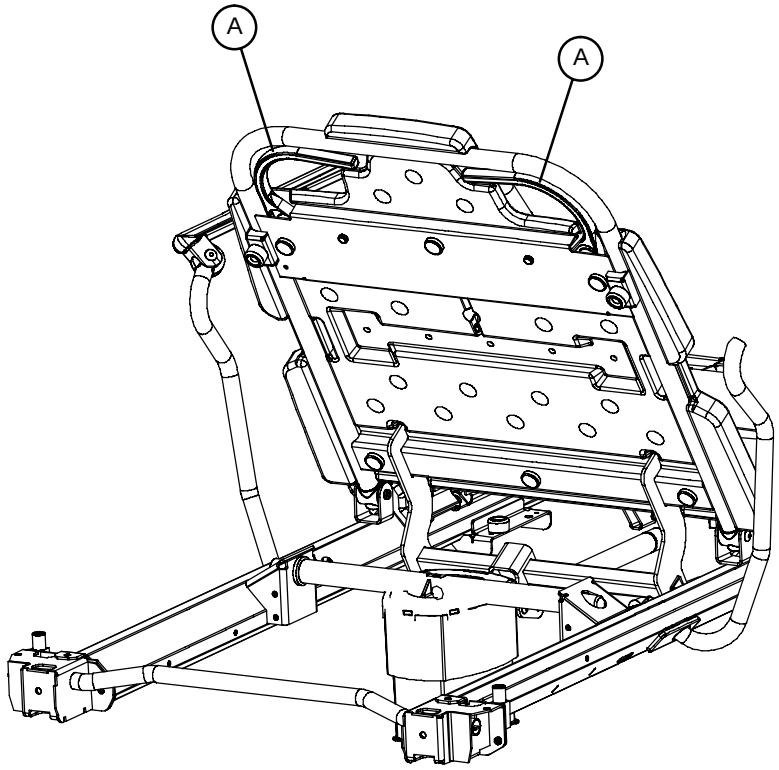
To avoid injury or damage to the equipment, Do not allow the siderail to lower on its own.

NOTE
There is a dual siderail latch option available with latches on both ends of the stretcher.

OPERATING THE PNEUMATIC FOWLER

Squeeze either or both of the yellow Fowler handles (A) for pneumatic assist in lifting the Fowler to the desired height. Remove hand(s) from handle when the desired height is achieved.

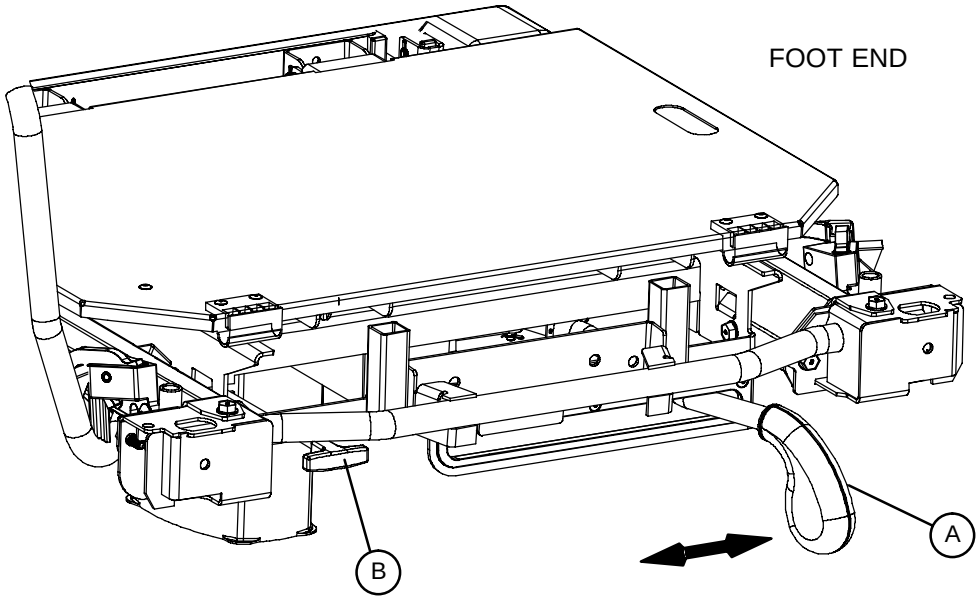
The optional drop seat Fowler uses the weight of the patient for additional assistance with lifting the Fowler. It also helps keep the patient from sliding toward the foot end of the stretcher when the Fowler is raised.



WARNING

Keep hands/fingers clear of the area around the Fowler release handles and the Fowler frame when lowering. Injury could result if care is not taken when lowering the Fowler.

OPERATING THE OPTIONAL KNEE GATCH

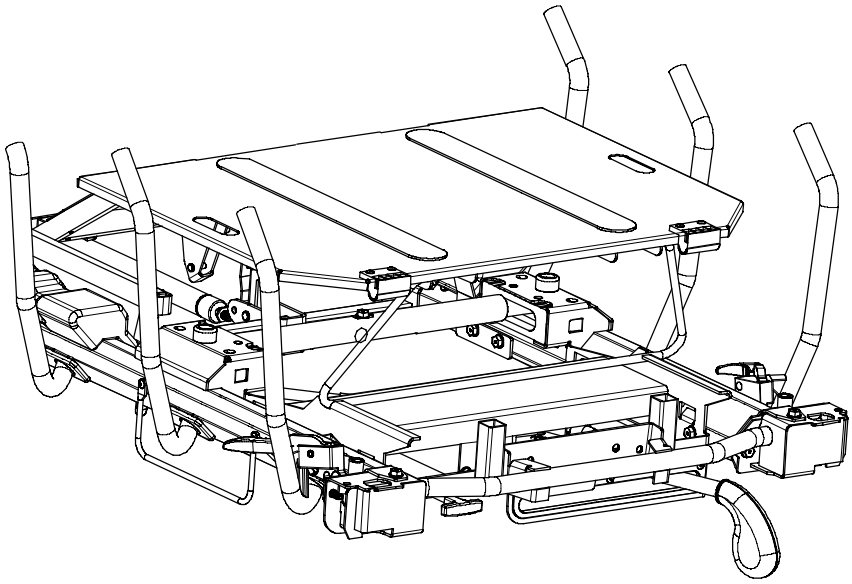


To raise the Knee Gatch, pump handle (A) repeatedly to the left.

To lower the Knee Gatch, pull out handle (B).

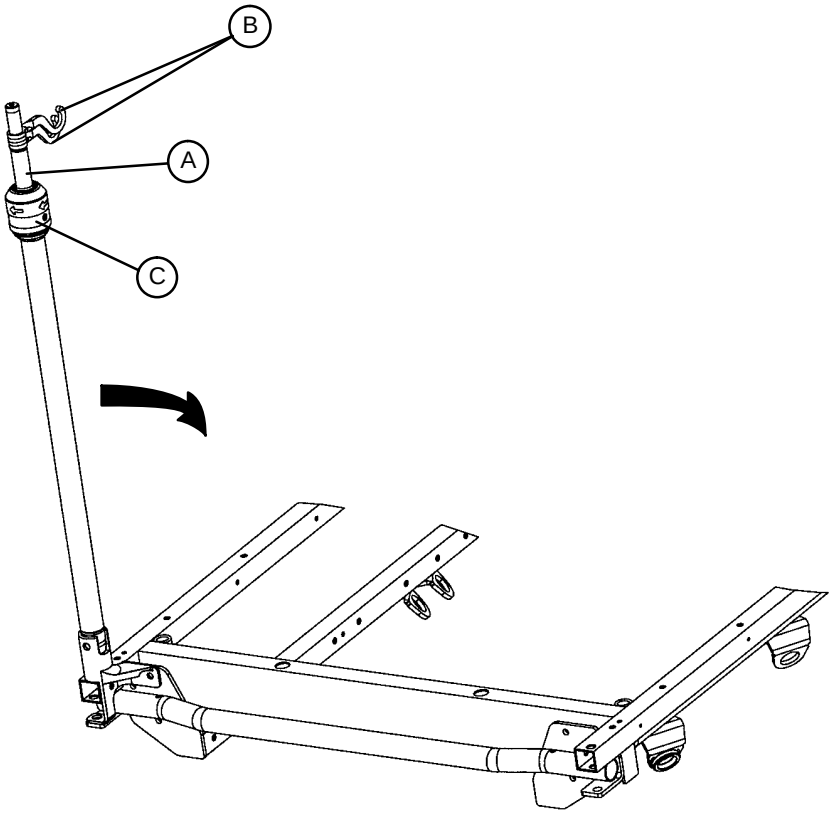
CAUTION

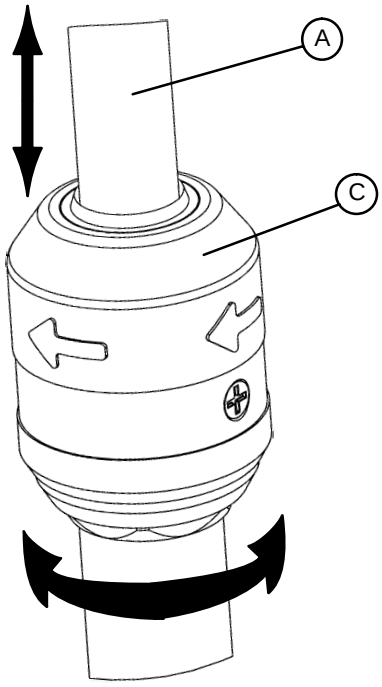
The weight capacity of the Knee Gatch is 200 pounds. Do not sit or stand on the Gatch. Injury or damage to the equipment could occur.



To prop the foot end of the Knee Gatch up, lift up the end of the Knee Gatch, allowing the prop rod to swing down and engage in the bracket. To release the prop, lift up on the end of the Gatch, swing the prop rod toward the head end of the bed to disengage the bracket and lower the foot end.

OPERATING THE OPTIONAL 2−STAGE PERMANENTLY ATTACHED IV POLE





DETAIL OF IV POLE LATCH

NOTE

The 2−stage permanently attached IV pole is an option and may have been installed at either the head, foot or both ends of the stretcher. The choice was made at the time the stretcher was purchased.

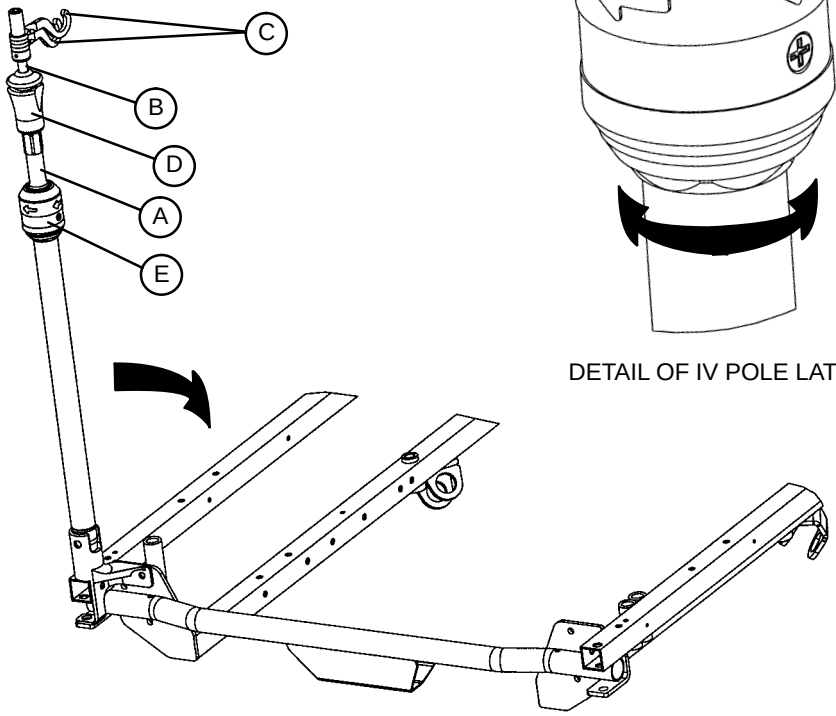
To use the 2−stage permanently attached IV pole:

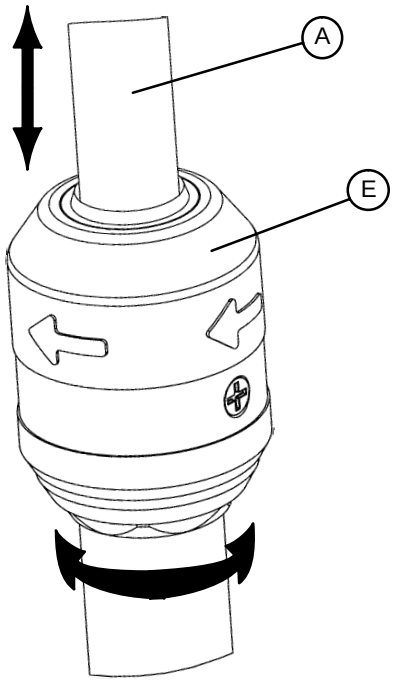
1. Lift and pivot the pole from the storage position and push down until it is locked into the receptacle.
2. To raise the height of the pole, pull up on the telescoping portion (A) until it locks into place at its fully raised position.
3. Rotate the IV hangers (B) to desired position and hang the IV bags.
4. To lower the IV pole, turn the latch (C) until section (A) lowers.

CAUTION

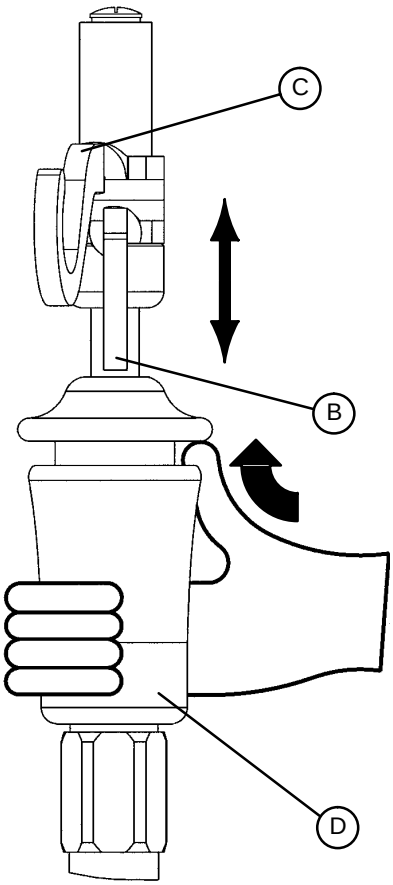
To avoid damage, the weight of the IV bags should not exceed 40 pounds.

OPERATING THE OPTIONAL 3−STAGE PERMANENTLY ATTACHED IV POLE





DETAIL OF IV POLE LATCH



DETAIL OF IV POLE GRIP

NOTE

The 3−stage permanently attached IV pole is an option and may have been installed at either the head, foot or both ends of the stretcher. The choice was made at the time the stretcher was purchased.

To use the 3−stage permanently attached IV pole:

1. Lift and pivot the pole from the storage position and push down until it is locked into the receptacle.
2. To raise the height of the pole, pull up on the telescoping portion (A) until it locks into place at its fully raised position.
3. For a higher IV pole, pull up on section (B). Release section (B) at any desired height and it will lock into place.
4. Rotate the IV hangers (C) to the desired position and hang the IV bags.
5. To lower the IV pole, push up on the red portion of grip (D) while holding onto section (B) until it lowers. Turn latch (E) until section (A) lowers.

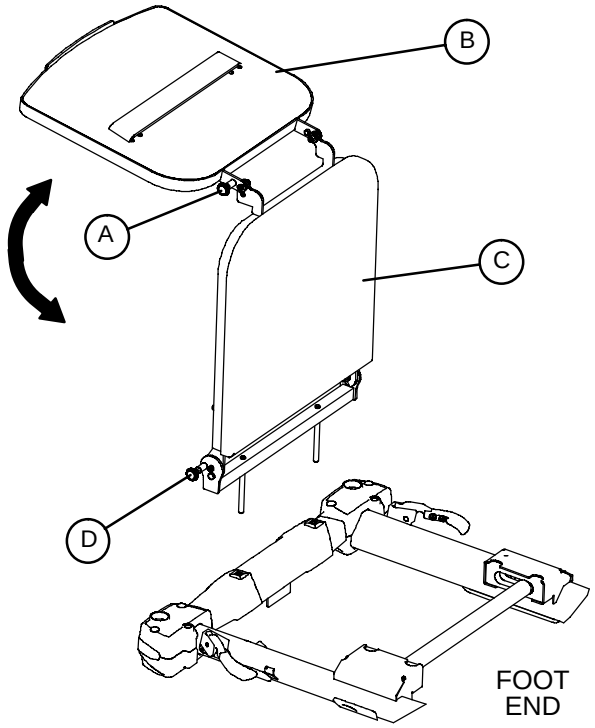
CAUTION

To avoid damage, the weight of the IV bags should not exceed 40 pounds.

OPERATING THE OPTIONAL FOOT EXTENSION/DEFIBRILLATOR TRAY

1. To use as a defibrillator tray, pull out the top knob (A) and pivot the tray (B) over the foot extension (C) until the tray extends flat over the foot end of the stretcher.

2. To use as a foot extension, pull out knob (A) and pivot the defibrillator tray back until it locks against the foot extension (C). While holding onto the assembly, pull out the bottom knob (D) and lower the foot extension down until it is flat.

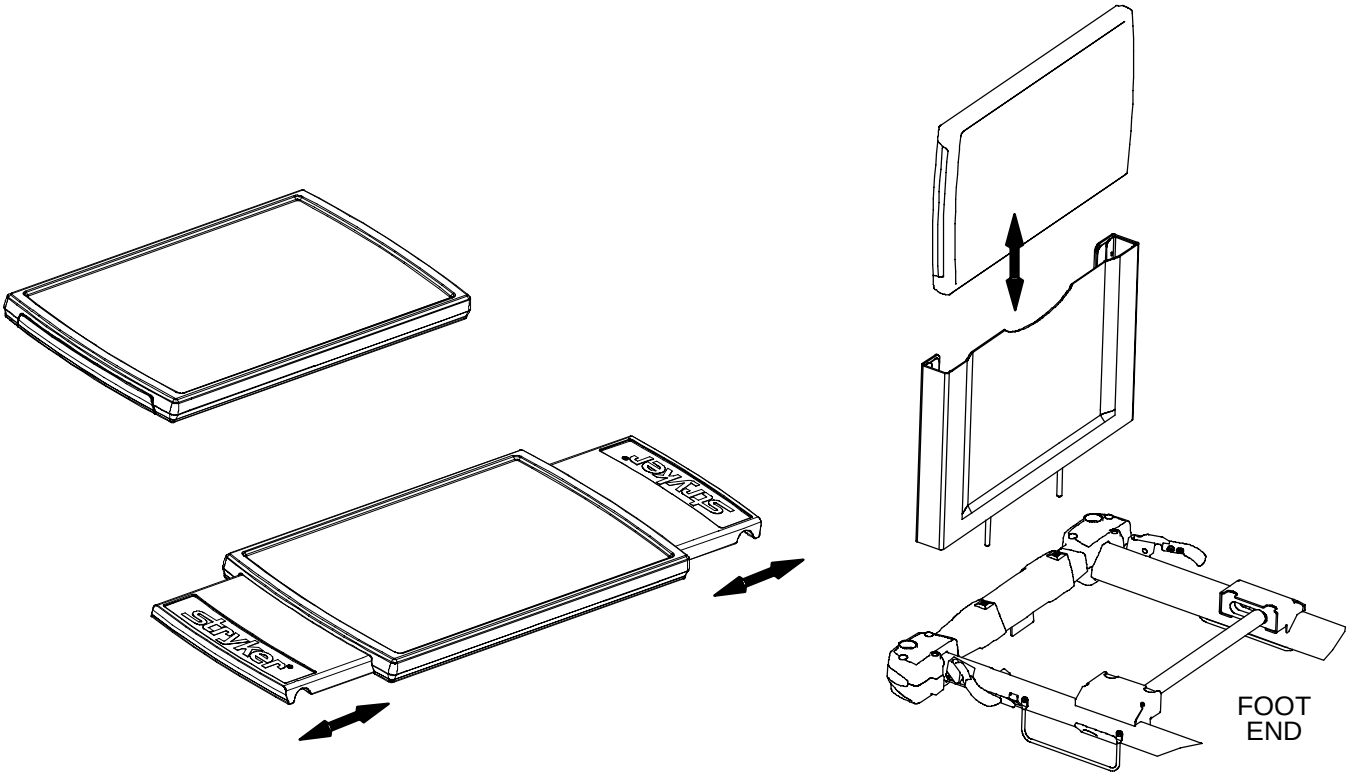


WARNING

If the stretcher is equipped with the optional foot end IV pole, the IV pole must be in the raised position when the foot extension/defibrillator tray is installed. If the IV pole is not raised, the foot extension will not function properly and injury could occur.

If the stretcher is equipped with the optional foot end push handles, use caution while the foot extension/defibrillator tray is installed to avoid pinching your fingers.

USING THE OPTIONAL SERVING TRAY



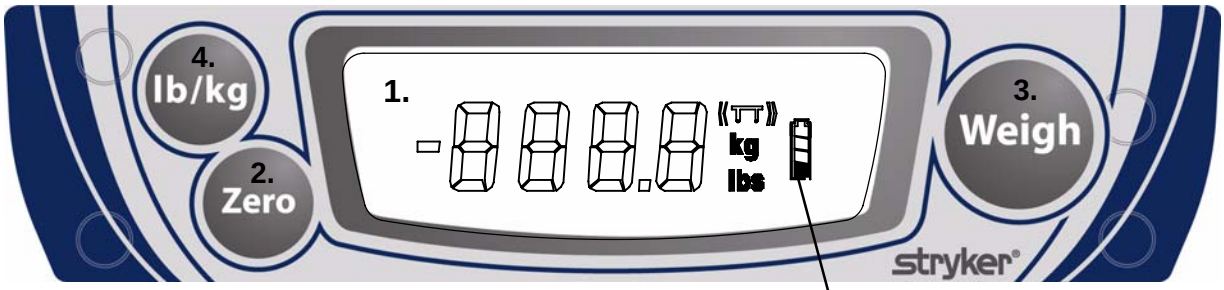
Pull out on either end of the serving tray to extend it to the proper width to fit on top of the stretcher siderails.

To store the serving tray in the optional serving tray holder/foot board, push in both ends of the serving tray and slide it into the holder.

CAUTION

To avoid damage, do not put items weighing more than 30 pounds on the serving tray.

OPTIONAL SCALE SYSTEM OPERATION



1. **Display** − Displays patient weight, unit of measurement and battery status.
2. **"Zero"** − Push and hold for 2 seconds to zero the scale system before putting a patient on the stretcher. If the display flashes "hold", press and hold the "Zero" button again until the display reads "rEL" (release). Release the "Zero" button. The display flashes "000.0", then displays "000.0". The system is not zeroed until the "000.0" stops flashing. For the most accurate results, always zero the scale system before putting a new patient on the stretcher. The display will shut off after approximately 40 seconds.
3. **"Weigh"** − Push to weigh the patient. The display will show the patient's weight for approximately 40 seconds before turning off.
4. **"lb/kg"** − Push to display patient weight in pounds or kilograms.

NOTE

Do not touch the stretcher while the scale system is weighing or zeroing.

The patient must remain still while the system is weighing. If the patient is moving, the system will try for 20 seconds to get a stable weight or zero value before displaying the error message ⟪⊤⊤⟫ .

If there is a loose connection or a malfunctioning component, the display will show "Err". Attempt the function again. If the system is functional, "Good" will display and the scale system is ready to use. If the malfunction is still present, the display shows "Err" again. Call Stryker technical support at 800−327−0770.

For the most accurate results, weigh the patient with the litter at zero degrees of Trend.

SYMBOL	ACTION	DISPLAY
Weigh	Press and release "WEIGH".	– – – – "XXX.X lbs
Zero	Press and hold "ZERO"	"hold "rEL"
	Release "ZERO"	"000.0" (flashing) "000.0 (solid)
lb/kg	To convert the patient's weight to kilograms, press and release "lb/kg"	"XXX.X kg
	Repeat to return to pounds.	"XXX.X lbs

OPTIONAL SCALE SYSTEM BATTERIES

NOTE

To avoid completely draining the batteries and having the optional scale system shut down, replace the batteries whenever only one of the charge indicator bars on the display is black (see page 20 for an example).

1. Remove the two Phillips head screws holding the battery compartment cover on the display assembly.
2. Replace all four AA batteries, being sure to install the positive and negative poles as indicated on the battery holder. Standard alkaline batteries are recommended. Do not mix old and new batteries or mix different types of batteries. Properly dispose of the old batteries in accordance with local regulations.
3. Reinstall the screws and the cover.

If the display is flashing "Lo Batt", the batteries are drained and the scale system is disabled. Replace the batteries with four new AA batteries as described above.

Preventative Maintenance

CHECKLIST

_____ All fasteners secure
_____ Siderails move and latch properly
_____ All casters lock with brake pedal engaged
_____ All casters secure and swiveling properly
_____ Fowler operates and latches properly
_____ Trendelenburg/Reverse Trendelenburg operating properly
_____ Ground chain intact
_____ No leaks at hydraulic connections
_____ Hydraulic jacks holding properly
_____ Hydraulic oil level sufficient
_____ Body restraints working properly
_____ IV pole intact and operating properly
_____ Oxygen bottle holder intact and operating properly
_____ No rips or cracks in mattress cover
_____ Engage the drive wheel and ensure it is operating properly
_____ No excessive play in the drive handles
_____ Press the handle switches. Unit should not move unless the handles are pushed forward or pulled back
_____ Press the handle switches. Move the handles forward and back and verify the unit responds properly
_____ Confirm battery powered functionality
_____ No cables worn, pinched or frayed
_____ All electrical connections tight
_____ All grounds secure to the frame
_____ Ground impedance not more than 100 milliohms max: Test point(s) include electronics enclosure and motor chassis mounted to base of unit.
_____ Current leakage not more than 300 microamperes (per UL 60601−1)
_____ Batteries sufficiently charged (optional scale system)
_____ Display housing intact and not damaged (optional scale system)
_____ Display label intact and not damaged (optional scale system)
_____ Load cells intact and not damaged (optional scale system)
_____ Scale calibrated properly. Recalibrate, if necessary (optional scale system)

Serial No.: _____ _____ _____ _____ _____

Completed By:_____ Date:_____

NOTE

Preventative maintenance should be performed at a minimum of annually. A preventative maintenance program should be established for all Stryker Medical equipment. Preventative maintenance may need to be performed more frequently based on the usage level of the product.

In general, when used in those concentrations recommended by the manufacturer, either phenolic type or quaternary type disinfectants can be used. Iodophor type disinfectants are not recommended for use because staining may result. The following products have been tested and have been found not to have a harmful effect WHEN USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED DILUTION.*

TRADE NAME	DISINFECTANT TYPE	MANUFACTURER	*MANUFACTURER'S RECOMMENDED DILUTION
A33	Quaternary	Airwick (Professional Products Division)	2 ounces/gallon
A33 (dry)	Quaternary	Airwick (Professional Products Division)	1/2 ounce/gallon
Beaucoup	Phenolic	Huntington Laboratories	1 ounce/gallon
Blue Chip	Quaternary	S.C. Johnson	2 ounces/gallon
Elimstaph	Quaternary	Walter G. Legge	1 ounce/gallon
Franklin Phenomysan F2500	Phenolic	Purex Corporation	1 1/4 ounce/gallon
Franklin Sentinel	Quaternary	Purex Corporation	2 ounces/gallon
Galahad	Phenolic	Puritan Churchill Chemical Company	1 ounce/gallon
Hi−Tor	Quaternary	Huntington Laboratories	1/2 ounce/gallon
LPH	Phenolic	Vestal Laboratories	1/2 ounce/gallon
Matar	Phenolic	Huntington Laboratories	1/2 ounce/gallon
Omega	Quaternary	Airwick (Professional Products Division)	1/2 ounce/gallon
Quanto	Quaternary	Huntington Laboratories	1 ounce/gallon
Sanikleen	Quaternary	West Chemical Products	2 ounces/ gallon
Sanimaster II	Quaternary	Service Master	1 ounce/gallon
Vesphene	Phenolic	Vestal Laboratories	1 1/4 ounce/ gallon

Quaternary Germicidal Disinfectants, used as directed, and/or Chlorine Bleach products, typically 5.25% Sodium Hypochlorite in **dilutions ranging between 1 part bleach to 100 parts water, and 2 parts bleach to 100 parts water are not considered mild detergents. These products are corrosive in nature and may cause damage to your stretcher if used improperly.** If these types of products are used to clean Stryker patient handling equipment, measures must be taken to insure the stretchers are rinsed with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the stretchers will leave a corrosive residue on the surface of the stretcher, possibly causing premature corrosion of critical components.

NOTE
Failure to follow the above directions when using these types of cleaners may void this product's warranty.

Clean Velcro **AFTER EACH USE**. Saturate Velcro with disinfectant and allow disinfectant to evaporate. (Appropriate disinfectant for nylon Velcro should be determined by the hospital.)

Do not use abrasive cleaners to clean the display enclosure for the optional scale system. Do not allow cleaning solutions or other fluids to pool on the display unit. Wipe dry all surfaces after spills or cleaning.

REMOVAL OF IODINE COMPOUNDS

This solution may be used to remove iodine stains from mattress cover and foam footrest pad surfaces.

1. Use a solution of 1−2 tablespoons Sodium Thiosulfate in a pint of warm water to clean the stained area. Clean as soon as possible after staining occurs. If stains are not immediately removed, allow solution to soak or stand on the surface.
2. Rinse surfaces which have been exposed to the solution in clear water before returning bed to service.

Warranty

Limited Warranty:

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser that its products should be free from defects in material and workmanship for a period of two (2) years after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. Stryker warrants to the original purchaser that the frame and welds on its beds will be free from structural defects for as long as the original purchaser owns the bed. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to Stryker's factory. Any improper use or any alteration or repair by others in such manner as in Stryker's judgement affects the product materially and adversely shall void this warranty. Any repair of Stryker products using parts not provided or authorized by Stryker shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

Stryker Medical stretcher products are designed for a 10 year expected service life under normal use, conditions, and with appropriate periodic maintenance as described in the maintenance manual for each device. Stryker warrants to the original purchaser that the welds on its stretcher products will be free from structural defects for the expected 10 year life of the stretcher product as long as the original purchaser owns the product.

This statement constitutes Stryker's entire warranty with respect to the aforesaid equipment. STRYKER MAKES NO OTHER WARRANTY OR REPRESENTATION, EITHER EXPRESSED OR IMPLIED, EXCEPT AS SET FORTH HEREIN. THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL STRYKER BE LIABLE HEREUNDER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN ANY MANNER RELATED TO SALES OR USE OF ANY SUCH EQUIPMENT.

To Obtain Parts and Service:

Stryker products are supported by a nationwide network of dedicated Stryker Field Service Representatives. These representatives are factory trained, available locally, and carry a substantial spare parts inventory to minimize repair time. Simply call your local representative, or call Stryker Customer Service at (800) 327−0770.

Service Contract Coverage:

Stryker has developed a comprehensive program of service contract options designed to keep your equipment operating at peak performance at the same time it eliminates unexpected costs. We recommend that these programs be activated *before* the expiration of the new product warranty to eliminate the potential of additional equipment upgrade charges.

A SERVICE CONTRACT HELPS TO:

- Ensure equipment reliability
- Stabilize maintenance budgets
- Diminish downtime
- Establish documentation for JCAHO
- Increase product life
- Enhance trade−in value
- Address risk management and safety

Stryker offers the following service contract programs:

SPECIFICATIONS	GOLD	SILVER	PM* ONLY
Annually scheduled preventative maintenance	X		X
All parts,** labor, and travel	X	X	
Unlimited emergency service calls	X	X	
Priority one contact; two hour phone response	X	X	X
Most repairs will be completed within 3 business days	X	X	
JCAHO documentation	X	X	X
On−site log book w/ preventative maintenance & emergency service records	X		
Factory−trained Stryker Service Technicians	X	X	X
Stryker authorized parts	X	X	X
End of year summary	X		
Stryker will perform all service during regular business hours (9−5)	X	X	X

* Replacement parts and labor for products under PM contract will be discounted.
** Does not include any disposable items, I.V. poles (except for Stryker HD permanent poles), mattresses, or damage resulting from abuse.

Stryker Medical also offers *personalized* service contracts.

Pricing is determined by age, location, model and condition of product.

For more information on our service contracts, please call your local representative or call (800) 327−0770 (option #2).

Return Authorization:

Merchandise cannot be returned without approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned merchandise. Stryker reserves the right to charge shipping and restocking fees on returned items.

SPECIAL, MODIFIED, OR DISCONTINUED ITEMS NOT SUBJECT TO RETURN.

Damaged Merchandise:

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. DO NOT ACCEPT DAMAGED SHIPMENTS UNLESS SUCH DAMAGE IS NOTED ON THE DELIVERY RECEIPT AT THE TIME OF RECEIPT. Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claim will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the merchandise, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full.

Claims for any short shipment must be made within thirty (30) days of invoice.

International Warranty Clause:

This warranty reflects U.S. domestic policy. Warranty outside the U.S. may vary by country. Please contact your local Stryker Medical representative for additional information.

European Representative

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Stryker France
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